



## Gas Response Trainer

SST4 MINI SIMULATOR



### TRAINING AND SIMULATION

#### Applications

- Gas safety training
- Confined space training
- Emergency & evacuation drills
- Industrial safety (HSE)
- Fire brigade & responders
- Police & emergency services
- Technician training
- Product demos & validation

## Features and Benefits



### Real-Life Gas Response Trainer

The SST4 Mini Simulator reproduces the alarm logic, visual indicators and audible behaviour of an SST4 Mini detector without using live gas or active sensors. This enables realistic gas response training in safe areas, eliminating exposure risks while maintaining authentic detector behaviour.



### Multi-Channel Control

One simulator controller can operate up to 15 simulator units simultaneously, allowing both individual and group training sessions. Scenarios can be repeated consistently, supporting structured training programs and objective evaluation of user response.



### Independent Operation

The system operates independently without software, mobile applications or external computer systems. This allows trainers to deploy the simulator immediately in classrooms, workshops or on-site training areas.



### Human Response Simulation

The simulator is designed to mirror real detector responses across four independent gas channels. Trainers can use this functionality to assess and train operator behaviour, decision-making and situational awareness under controlled but realistic conditions.



### Training and Certification Programs

Repeatable simulation parameters enable organisations to standardise training procedures and align them with internal qualification, audit and certification requirements. This ensures consistent learning outcomes across teams and locations.



### Safe-Area Simulator Device

Fire brigades, police units, industrial operators, HSE teams and service engineers all benefit from improved readiness. The trainer reduces human error and elevates operational performance to a level traditional training methods cannot match.

## Technical Specifications

Parameter	Specifications
<b>Simulated gases</b>	O <sub>2</sub> , LEL, CO, H <sub>2</sub> S
<b>Output signal type</b>	Digital
<b>Response time</b>	±10s
<b>Power supply</b>	Powered by 2 x AA batteries (3.0 V)
<b>Communication interface</b>	Wi-Fi / Radio signal (Outside: ±100m range without obstacles)
<b>Amount of simulators per controller</b>	Up to 15 simulator channels can be controlled with one controller

## Accessories

 <p><b>SST4 Mini Simulator controller</b> SST4-SIM-RMT</p>	 <p><b>SST4 Mini Simulator Device</b> SST4-SIM-UNIT</p>	 <p><b>SST4 Mini Simulator Kit (1 remote, 1 SST4 sim)</b> SST4-SIM-KIT</p>
 <p><b>WatchGas SST Range 5 Way Stackable Charging Cradle</b> max 4 can be coupled w/o CHR SST-STACK-CHR</p>	 <p><b>WatchGas SST Range 6 Way Charging Cradle</b> with universal adapter SST-6WSCC-KIT</p>	
 <p><b>WatchGas SST Induction Cradle Charger</b> with (SST-RCH) adapter SST-IND-S</p>	 <p><b>WatchGas SST Docking Station</b> For SST1, SST4 Micro, Mini and Pump, and SST5 SST-DOCK</p>	

## Simulation Details

Gas	Simulation range	Adjustment step	Default calibration value	Description
O <sub>2</sub>	0 – 24.9% Vol	0.1% Vol	18.0% Vol	Simulates ambient oxygen levels
LEL	0 – 60% LEL	1% LEL	50% LEL	Simulates explosive methane range (LEL)
CO	0 – 1990 ppm	1 ppm	50 ppm	Simulates carbon monoxide levels
H <sub>2</sub> S	0 – 99.9 ppm	0.1 ppm	10 ppm	Simulates hydrogen sulphide levels

## Warning!

Do not use in potential explosive and/or hazardous atmospheres. Safe area use only. The SST4 Mini Simulator is intended solely for training and simulation purposes. It does not replace functional gas detectors and must not be used for live gas measurement or personal protection.

## Simulation Preview



## For more information

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WatchGas is dedicated to continuously improving its products. Therefore, the specifications and features mentioned in this datasheet are subject to change without prior notice.

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